

# Florida Sea Grant Program 2012 NSGO Review

Gene W. Kim

# Florida SG Management

## Management staff (Name, position, FTE)

- Karl Havens, Director, (1.0 FTE)
- Mike Spranger, Associate Director for Extension (0.5 FTE)
- Charles Sidman, Associate Director for Research (1.0 FTE)
- Dorothy Zimmerman, Director for Communications (1.0 FTE)
- Ed Harvey, Assistant Director for Fiscal Operations (1.0 FTE)

## Large-Sized Program

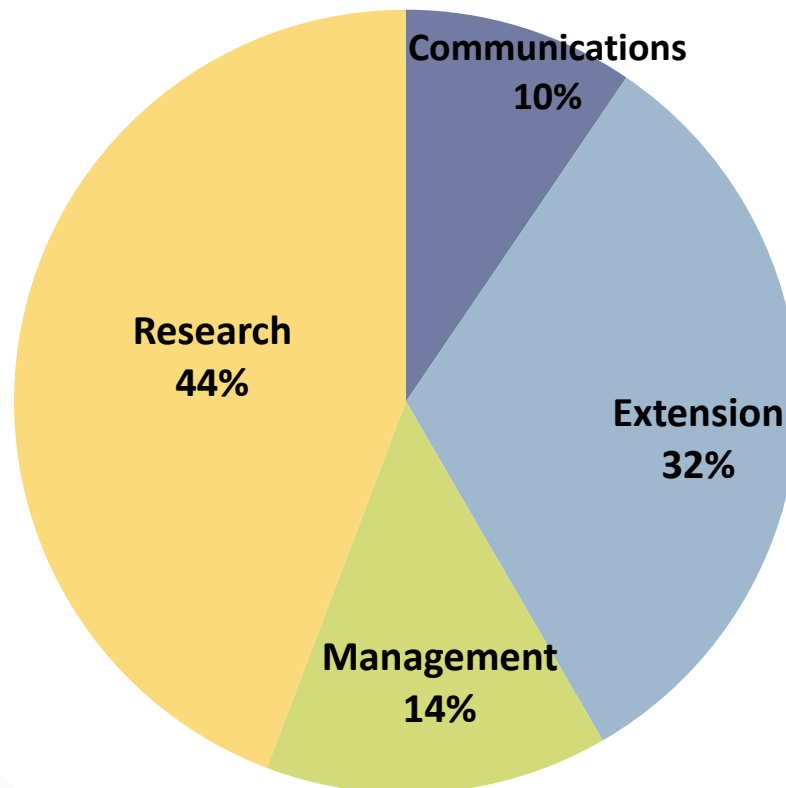
# Florida SG Management

- Total FTEs on staff (information in Annual report metrics)

| Functional Area | # of individuals | # of FTEs supported by SG | # of FTEs supported by match/leverage |
|-----------------|------------------|---------------------------|---------------------------------------|
| Mgt/Admin       | 5.00             | 3.00                      | 2.00                                  |
| Comm.           | 3.50             | 2.60                      | 0.86                                  |
| Ext.            | 20.50            | 8.00                      | 12.50                                 |
| Education       | 3.50             | 1.75                      | 1.75                                  |
| Research        | 67.00            | 10.00                     | 5.30                                  |

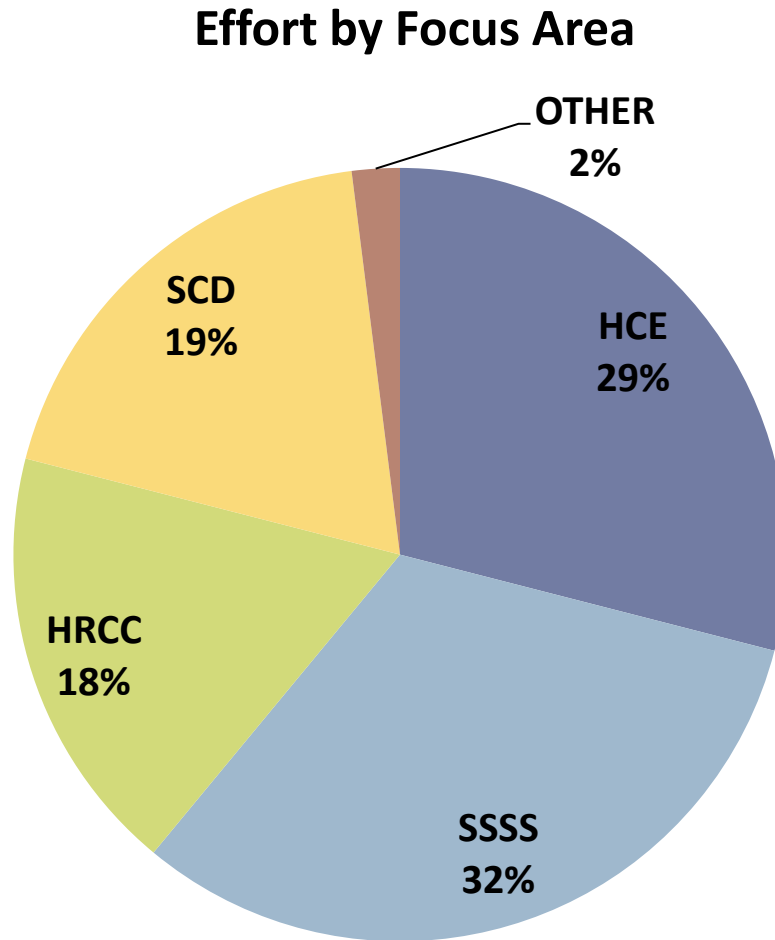
# Florida SG 2010 Core Budget (Fed + Match) towards each Functional Area

**2010  
Effort by Functional Area**



# Florida SG 2010 Budget towards each Focus Area

(Fed + Match + Pass-Through + Managed Leveraged Funds)



# Significant Florida SG Changes (since Jan. 2011)

- New Advisory Council members address suggestions by Site Review Team.
- Newly re-constituted Advisory Committee includes:
  - Elected officials
    - Mayor, City of Clearwater
  - Expertise in coastal development and climate change
    - SW FL Regional Planning Council
  - Nature-based tourism / wildlife watching representatives
    - Audubon of FL, Royal Caribbean Cruises
  - Representatives of underserved populations
    - Mahogany Youth Corporation
    - Member of the Latino Environmental Network

# Florida SG Program RFP Process

- Research priorities drawn from the Florida SG Strategic plan and broadcasted widely
- Florida SG Requires researchers to:
  - work with end-users to develop relevant proposals and Strategic planning priorities were used to form the RFP research priorities.
  - Include a specific outreach plan in full proposals
- Two-state research review process:
  - Initial review of statements of interest and full proposals by in-state and out-of-state subject matter experts that had academic, industry and state agency affiliations.
  - Final review of statements of interest and full proposals by a panel of 8 to 10 out-of-state subject matter experts who discussed, ranked and selected projects for funding.
    - Same out-of-state panel reviews both statement of interest and the subsequent full proposals.
    - Extension and outreach plan is reviewed by the panel and FLSG Extension Director.

# RFP Process for 2012-2013 Projects – Research Metrics

| Core Proposals           | # of Proposals | # of institutions | # of home institutions |
|--------------------------|----------------|-------------------|------------------------|
| Pre-proposals submitted  | 29             | 10                | 10                     |
| Full proposals submitted | 14             | 6                 | 7                      |
| Proposals Funded         | 6              | 3                 | 3                      |



# Contribution to National Performance Measures and Metrics

| Focus Area | Metric/Performance Measure  | Actual |
|------------|---|--------|
| SSSS       | Jobs created (or retained) from the discovery or application of fishery production and management models or techniques that lead to increased sustainability and productivity from the fishery (Target = 500) | 3095   |
| SSSS       | Number of nation-wide seafood processing operations that participate in the new editions of the University of Florida and Florida Sea Grant Seafood HACCP Alliance training programs (target = 4000)          | 2792   |
| HCE        | Number of acres of coastal habitat enhanced, re-established or rehabilitated through volunteer efforts coordinated by Florida Sea Grant (Target = 100)  | 3700   |

# Contribution to National Performance Measures and Metrics (continued)

| Focus Area | Metric/Performance Measure  | Actual                 |
|------------|---|------------------------|
| SCD/HRCC   | Number of resource managers and policy-makers who receive information and guidance from Florida SG regarding practices and policies to support sustainable development, best boating and waterway management practices, and coastal resilience  | 1788<br>(Target = 300) |
| Climate    | No. of legal professionals and coastal community planners who develop an increased understanding of what is known, what is probable, and what is possible in regard to the impacts of SLR on coastal property and infrastructure, & become more familiar with legal and policy options related to zoning and land use for proactive planning as a result of FSG law/policy outreach | 244<br>(Target = 100)  |
|            | Total K-12 Students Reached through Educators   | 31,704                 |
|            | SG-Sponsored/Organized Meetings, Workshops and Conferences  | 119                    |

# Florida SG Impacts

## **FSG extension helps create new volunteer-based program for statewide crab trap removal to safeguard navigation & enhance benthic habitats**

- Lost/abandoned crab traps litter FL's shallow estuarine habitats; navigation and recreational and commercial fishing industries are affected
- FSG extension agents and partners (commercial crabbers, FL FWCS, Ocean Conservancy) responded by creating guidelines for volunteer-based crab trap removal and disseminated this information
- As a result,
  - In 2010 this project removed > 3,000 derelict crab traps
  - Six events conducted throughout FL, coinciding with mandatory regional gear closures.
  - This effort has enhanced approximately 125,000 acres of benthic habitat
- FLSG Focus Area: Healthy Coastal and Marine Ecosystem State; State FLSG Goal: Support the restored diversity, function and productivity of coastal and marine ecosystems

# Florida SG Impacts

## FL SG Extension responded to the Deepwater Horizon oil spill to support Florida's Gulf coast

- Oil spill impacts constrained to the 'panhandle' region
- Yet, all Florida experienced economic impacts (tourism, seaffod concerns)
- In response, FLSG was instrumental in positive outcomes, including:
  - Decision-support framework helped claims filed for lost revenue and income
  - Citizen clean-up on area beaches, marine mammal activities
  - Seafood sensory program (H.O.W.) trained staff to detect oil contamination
  - 'Listening sessions' in the panhandle region
- As a result:
  - 14 small businesses obtained economic relief from BP
  - 1,350 boat owners able to participate in the vessels of opportunity program (earning an estimated \$2.03 million and helping to deploy booms to protect beaches and sensitive oyster habitat)
  - 129 volunteers were trained to care for oil-impacted marine animals
  - > 50 regulatory agency staff and industry reps received training to screen seafood for oil contamination.



FLSG Focus Area: Healthy Coastal and Marine Ecosystem State

# Florida SG Impacts

## FLSG trains seafood professionals on seafood quality

- Seafood is highly perishable and product quality is important
  - In addition to safety concerns, seafood quality results from different issues (e.g., spoilage, enzymes and bacteria, handling, freezing)
- Hazard Analysis Critical Control Point System (HACCP)
  - Process-control system that identifies where hazards might occur in the food production process, stringent actions to prevent contamination
- FLSG specialist developed new HACCP curriculum, trained ~300 individuals (processing, retail, agency) on new safety regulations
- New HACCP certifications obtained by participating seafood processing and retailer firms estimated to sustain 70 businesses and 5,000 jobs in the industry
- FLSG Focus Area: Seafood production and safety



# Florida SG Impacts

## FLSG technical assistance helps planning in coastal communities

- Many rural coastal communities lack technical resources for science-based planning to balance economic growth and the environment
- Limited public access frustrates recreational users, limits tourism

FLSG-initiated Taylor County pilot initiative engages citizens:

- Limited employment due, in part, to limited public access
- FLSG/IFAS technical assistance: user and economic assessment of existing access and future benefits, improvement surveys

As a result of the public input process,

- Support for improvements; \$700,000 in outside funds
- Public waterway access facilities estimated to sustain 158 jobs and contributes > \$10 million to local economy

FLSG Focus Area: Sustainable and Hazard Resilient Coastal Communities



# Florida SG 2010 Research Accomplishments

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## **New economic impact analysis supports Florida Sea Grant's longstanding leadership role in developing nurturing Florida's artificial reef program.**

- Since 1982, Florida's artificial reef program led by FLSG:
  - Active among the Gulf and Atlantic states (> 2,500 artificial reefs in FL coastal waters)
  - Provides expertise in deployment, maintenance, and ecological evaluation
  - Organizes biennial , statewide artificial reef conference and regional workshops
- FLSG conducted economic impact analysis for SW Florida (requested by West Coast Inland Navigation District and Florida FWCC)
- Results estimate that Florida's artificial reef program:
  - Is responsible for more than 2,500 jobs
  - Contributes >\$226 million to the local SW Florida economy alone.
  - Is supported by economics, justifying FLSG's Extension support



FLSG Focus Area: Sustainable and Hazard Resilient Coastal Communities

# Florida SG 2010 Research

## Accomplishments

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**FLSG researchers develop technology to use aquaculture effluent to grow marine plants, enhancing 310 acres of coastal habitat in Florida.**

- Economic potential for recirculating marine aquaculture to use wastewater for simultaneous commercial production or stock enhancement of marine fish and plants (diversify income).
- FLSG researchers from Mote Marine Laboratory and industry partners are developing recirculating system:
  - New brackish water collection system to expand an existing fish aquaculture facility (Aqua Green) to also produce marine plants (e.g., red mangroves, smooth cord grass, rush, and saltwort).
  - To date, 107,614 plants have been grown; transplants used to enhance > 300 coastal acres around FL
  - "Thus far, plant growth performance using the new wastewater systems has been a raging success and cost savings has been dramatically improved compared to off-site horticulture operations." Gil Sharell, Jr, Vice President of Aquatic Plants of Florida, Inc.,

FLSG Focus Area: Healthy Coastal and Marine Ecosystem State;



# Sources (unless otherwise noted)

- Planning, Implementation, and Evaluation Resources (PIER)  
<https://pier.seagrant.noaa.gov>
- Personal Communication with Program